

SEQUENCE LISTING

<110> Ligensa, Tanja
Schumacher, Ralf
Weidner, Michael

<120> IGF-1 Receptor Interacting Proteins

<130> 09/453,195

<140> 09/453,195

<141> 1999-12-02

<150> EPO 98122992.5

<151> 1998-12-03

<160> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 1707

<212> DNA

<213> Homo sapiens

<220>

<223> n at position 186, 187, 203, and 205 is a, t, g, or c.

<400> 1

gaaaccacaca ggaggcaacc acactagttt agatcttctg gtgacccac ttctcgctgc 60
tcatgccgct gggactgggg cgccggaaaa aggccccc tctagtggaa aatgaggagg 120
ctgagccagg ccgtggaggg ctggggctgg gggagccagg gcctctggc ggaggtgggt 180
cggggnncnc ccaaattggc ttncncccc cttcccccac cctgcggccc cgcctcggt 240
tccacaccca gctggcccat ggcagtccca ctggccgcat cgaggccttc accaacgtca 300
aggagctgta tggcaagatc gccgaggcct tccgcctgccc aactgccgag gtgatgttct 360
gcaccctgaa caccacaaa gtggacatgg acaagctcct gggggccag atcgggctgg 420
aggacttcat cttcgcccac gtgaaggggc agcgcaagga ggtggaggtg ttcaagtctgg 480
aggatgcact cgggctcacc atcacggaca acggggctgg ctacgccttc atcaagcgca 540
tcaaggagggg cagcgtgatc gaccacatcc acctcatcag cgtggcgcac atgatcgagg 600
ccattaacgg gcagagcctg ctgggctgccc ggcactacga ggtggccgg ctgctcaagg 660
agctgccccg aggccgtacc ttcacgctga agtcacgga gcctcgcaag gccttcgaca 720
tgatcagcca gcgttcagcg ggtggccggc ctggctctgg cccacaactg ggcactggcc 780
gagggaccct gcccgtccga tcccggggcc cccgcacgggt ggaggatctg ccctctgcct 840
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acacggagct ggcagccacc atgggtggagc tgggaaagga caaaaggaac cggatgagc 960
tggccgaggc cctggacgaa cggctgggtg actttgcctt ccctgacgag ttctgtttt 1020
acgtctgggg cgccattggg gacgccaagg tcggccgcta cttagactgc ccccgacccc 1080
tgcgtatgtg acccgccgc aacctgggtt gggccccccag cagggacact gacgtcagga 1140
cccgagccctc cagcctgagc cttagctcagc agcccaagga cgatgtgag gggaggtggg 1200
gccaggcccc ctgccccgct ccactcggtt ccaccccttc cctgggtccc agtctggccg 1260
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taatgcctc accccctcctg agaggagccc cccctgtt gaggctgttta cctccgcatt 1560
tgacacgagt ctgctgtaa ccccgcaacc tcctccccac ctcccatctc tccttccagg 1620

cccatccccg gcccagagca ggagggaggg agggacgatg gcgggtgggtt tttgttatctg 1680
aatttgcgtt cttgaacata aagaatc 1707

<210> 2
<211> 333
<212> PRT
<213> Homo sapiens

<220>

<223> Xaa at position 42, 47, and 48 is any one of the twenty naturally occurring amino acids.

<400> 2

Met Pro Leu Gly Leu Gly Arg Arg Lys Lys Ala Pro Pro Leu Val Glu
1 5 10 15

Asn Glu Glu Ala Glu Pro Gly Arg Gly Gly Leu Gly Val Gly Glu Pro
20 25 30

Gly Pro Leu Gly Gly Ser Gly Xaa Pro Gln Met Gly Xaa Xaa
35 40 45

Pro Pro Pro Pro Ala Leu Arg Pro Arg Leu Val Phe His Thr Gln Leu
50 55 60

Ala His Gly Ser Pro Thr Gly Arg Ile Glu Gly Phe Thr Asn Val Lys
65 70 75 80

Glu Leu Tyr Gly Lys Ile Ala Glu Ala Phe Arg Leu Pro Thr Ala Glu
85 90 95

Val Met Phe Cys Thr Leu Asn Thr His Lys Val Asp Met Asp Lys Leu
100 105 110

Leu Gly Gly Gln Ile Gly Leu Glu Asp Phe Ile Phe Ala His Val Lys
115 120 125

Gly Gln Arg Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly
130 135 140

Leu Thr Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg Ile
145 150 155 160

Lys Glu Gly Ser Val Ile Asp His Ile His Leu Ile Ser Val Gly Asp
165 170 175

Met Ile Glu Ala Ile Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr
180 185 190

Glu Val Ala Arg Leu Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr
195 200 205

Leu Lys Leu Thr Glu Pro Arg Lys Ala Phe Asp Met Ile Ser Gln Arg
210 215 220

Ser Ala Gly Gly Arg Pro Gly Ser Gly Pro Gln Leu Gly Thr Gly Arg
225 230 235 240

Gly Thr Leu Arg Leu Arg Ser Arg Gly Pro Ala Thr Val Glu Asp Leu
245 250 255

Pro Ser Ala Phe Glu Glu Lys Ala Ile Glu Lys Val Asp Asp Leu Leu
260 265 270

Glu Ser Tyr Met Gly Ile Arg Asp Thr Glu Leu Ala Ala Thr Met Val
275 280 285

Glu Leu Gly Lys Asp Lys Arg Asn Pro Asp Glu Leu Ala Glu Ala Leu
290 295 300

Asp Glu Arg Leu Gly Asp Phe Ala Phe Pro Asp Glu Phe Val Phe Asp
305 310 315 320

Val Trp Gly Ala Ile Gly Asp Ala Lys Val Gly Arg Tyr
325 330

<210> 3
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<223> n at position 369 is a, t, g, or c.

<400> 3
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acacacctggg aggatcatgg gcaggagagc ctgttggcag ggctccacgg aacgcattcca 120
ccaaagacaa ggcagaaaagt cactgccccaa gccggaggccc ccggggatcc catgcttttt 180
tcaagcccgag agacagatga gaagctttt atatgtgcgc agtgtggcaa aaccttcaac 240
aataacctcca acctgagaac gcaccagcgg atccacactg gcgagaagcc ctacatgtgt 300
tccgagtgtg gcaagagttt ctccggagc tccaaaccgca tccggcacga gcgcatccac 360
ctggaagana agcactctga 380

<210> 4
<211> 126
<212> PRT
<213> Homo sapiens

<220>
<223> Xaa at position 123 is any one of the twenty naturally occurring
amino acids.

<400> 4
Ala Glu Glu Gly Glu Gly Ala Lys Pro Trp Arg Val Asp Gly Ser Lys
1 5 10 15

Asp Ser Gln Ile Thr Pro Arg Glu Asp His Gly Gln Glu Ser Leu Leu
20 25 30

Ala Gly Leu His Gly Thr His Pro Pro Lys Thr Arg Gln Lys Val Thr
35 40 45

Ala Gln Ala Gly Gly Pro Gly Asp Pro Met Leu Phe Ser Ser Pro Glu
50 55 60

Thr Asp Glu Lys Leu Phe Ile Cys Ala Gln Cys Gly Lys Thr Phe Asn
65 70 75 80

Asn Thr Ser Asn Leu Arg Thr His Gln Arg Ile His Thr Gly Glu Lys
85 90 95

Pro Tyr Met Cys Ser Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn
100 105 110

Arg Ile Arg His Glu Arg Ile His Leu Glu Xaa Lys His Ser
115 120 125

<210> 5

<211> 678

<212> DNA

<213> Homo sapiens

<400> 5

atgtcgagac cccggaagag gctggctggg acttctgggt cagacaaggg actatcagga 60
aaacgcacca aaactgagaa ctcaggtag gcattagcta aagtggagga ctccaaaccct 120
cagaagactt cagccactaa aaactgtttg aagaatctaa gcagccactg gctgtatgaag 180
tcagagccag agagccgcct agagaaaggt gtagatgtga agttcagcat tgaggatctc 240
aaagcacacgc ccaaacacagac aacatgctgg gatgggtgttc gtaactacca ggctcgaaac 300
ttccttagag ccatgaagct gggagaagaa gccttcttct accatagcaa ctgcaaagag 360
ccaggcatcg caggactcat gaagatcgtg aaagaggctt acccagacca cacacagttt 420
gagaaaaaaca atccccatta tgaccatct agcaaagagg acaaccctaa gtggtccatg 480
gtggatgtac agttgttcg gatgtgaaa cgtttcattc ccctggctga gctcaaatcc 540
tatcatcaag ctcacaaaacg tactgtggc cccttaaaaaa atatggttct cttcactcgc 600
cagagattat caatccagcc cctgacccag gaagagttt attttgtttt gagcctggag 660
gaaaaggaac caagttaa 678

<210> 6

<211> 225

<212> PRT

<213> Homo sapiens

<400> 6

Met Ser Arg Pro Arg Lys Arg Leu Ala Gly Thr Ser Gly Ser Asp Lys
1 5 10 15

Gly Leu Ser Gly Lys Arg Thr Lys Thr Glu Asn Ser Gly Glu Ala Leu
20 25 30

Ala Lys Val Glu Asp Ser Asn Pro Gln Lys Thr Ser Ala Thr Lys Asn
35 40 45

Cys Leu Lys Asn Leu Ser Ser His Trp Leu Met Lys Ser Gly Pro Glu
50 55 60

Ser Arg Leu Glu Lys Gly Val Asp Val Lys Phe Ser Ile Glu Asp Leu
65 70 75 80

Lys Ala Gln Pro Lys Gln Thr Thr Cys Trp Asp Gly Val Arg Asn Tyr
85 90 95

Gln Ala Arg Asn Phe Leu Arg Ala Met Lys Leu Gly Glu Ala Phe
100 105 110

Phe Tyr His Ser Asn Cys Lys Glu Pro Gly Ile Ala Gly Leu Met Lys
115 120 125

Ile Val Lys Glu Ala Tyr Pro Asp His Thr Gln Phe Glu Lys Asn Asn
130 135 140

Pro His Tyr Asp Pro Ser Ser Lys Glu Asp Asn Pro Lys Trp Ser Met
145 150 155 160

Val Asp Val Gln Phe Val Arg Met Met Lys Arg Phe Ile Pro Leu Ala
165 170 175

Glu Leu Lys Ser Tyr His Gln Ala His Lys Ala Thr Gly Gly Pro Leu
180 185 190

Lys Asn Met Val Leu Phe Thr Arg Gln Arg Leu Ser Ile Gln Pro Leu
195 200 205

Thr Gln Glu Glu Phe Asp Phe Val Leu Ser Leu Glu Glu Lys Glu Pro
210 215 220

Ser
225

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer TIP2c-s

<400> 7
gaaaccacaca ggaggcaa 18

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer TIP2b-r

<400> 8

ggtcatcatc gcagggtc

18

<210> 9

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer Hcthy-s

<400> 9

agcttgcggc cgcgatgtc gagacccgg aag

33

<210> 10

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer Hcthy-r

<400> 10

agcttgcggc cgcgaaattct taacttggtt cctttcctc

40